

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 October 2001 (25.10.2001)

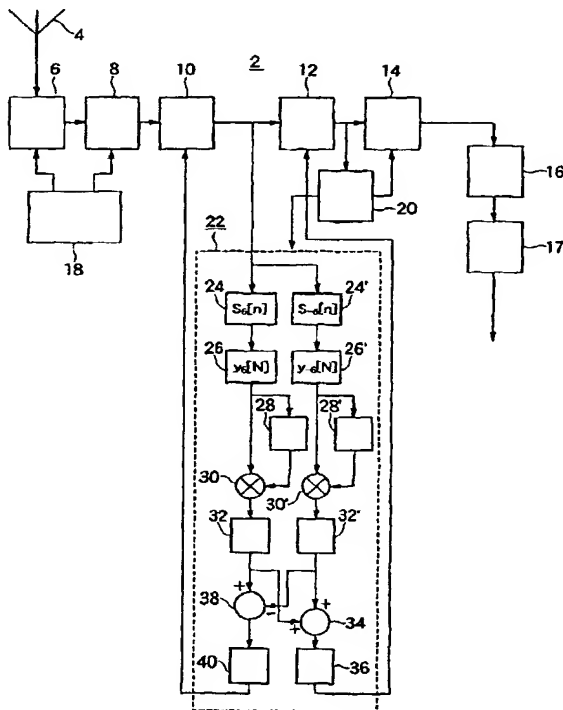
PCT

(10) International Publication Number
WO 01/80509 A1

- (51) International Patent Classification⁷: H04L 27/26 (72) Inventors; and
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(21) International Application Number: PCT/JP01/03080
(22) International Filing Date: 10 April 2001 (10.04.2001)
(25) Filing Language: English
(26) Publication Language: English (74) Agents: SOGA, Michiteru et al.; S. Soga & Co., 8th Floor, Kokusai Building, 1-1, Marunouchi 3-chome, Chiyoda-ku, Tokyo 100-0005 (JP).
(30) Priority Data: 0009494.6 17 April 2000 (17.04.2000) GB
(81) Designated States (national): CN, JP, KR, US.
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Published:
— with international search report

[Continued on next page]

(54) Title: COMPENSATION OF SAMPLING FREQUENCY OFFSET AND LOCAL OSCILLATOR FREQUENCY OFFSET IN A OFDM RECEIVER



(57) Abstract: A partial Fourier Transform is performed, using Goertzel's algorithm, to calculate two frequency bins. A phase variation is calculated for each bin, the phase variation preferably representing the phase difference between the bin calculated by a Fourier Transform performed on samples in a guard interval and the bin calculated by a Fourier Transform performed on matching samples within the useful part of the symbol. The local oscillator frequency offset is compensated by summing the phase variations, and the sampling frequency offset is compensated by taking the difference between the phase variations.

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